

SECTION 16100 - WIRING METHODS

A. SUMMARY

1. Wires and cables rated 600 V and less.
2. Control and signal transmission media.
3. Raceways and boxes.

B. MATERIALS

1. Building Wires and Cables:
 - a. Service Entrances: Type USE, RHW, THWN in raceway.
 - b. Feeders: Type THHN/THWN in raceway.
 - c. Fire-Pump Feeder: Type MI, three conductor.
 - d. Branch Circuits: Type THHN/THWN in raceway.
 - e. Fire Alarm Circuits: Power-limited, fire-protective, signaling circuit cable Type THHN/THWN in raceway.
 - f. Class 1 Control Circuits: Type THHN/THWN, in raceway.
 - g. Class 2 Control Circuits: Type THHN/THWN in raceway.
 - h. Wire and Cable Materials: Copper.
2. Electronic Cable:
 - a. Coaxial: 75 ohm, single-conductor for plenum application.
 - b. Twin Lead: 300 ohm copper-covered steel.
 - c. Multiconductor: No. 18 AWG, shielded, with PVC jacket.
 - d. Twisted Pair: No. 22 AWG, unshielded, with jacket for plenum application.
 - e. Video Pair: 125-ohm, balanced-pair coaxial cable.
3. Optical Fiber Cables: Single channel, multimode, graded index.
4. Raceways:
 - a. Outdoors, Exposed or Concealed: Rigid steel.
 - b. Underground: RNC.
 - c. Indoors Exposed: EMT.
 - d. Indoors Concealed: EMT.
 - e. Damp or Wet Locations: Rigid steel.
5. Wireways: Hinged-cover type.
6. Surface Raceways: Nonmetallic.
7. Outlet and Device Boxes: Sheet metal.

- a. Outdoors: Type 3R or Type 4.
 - b. Damp or Wet Locations: Stainless steel.
- 8. Floor Boxes: Cast metal.
 - 9. Pull and Junction Boxes: Sheet metal.
 - 10. Boxes and Enclosures: NEMA 250.

C. FIELD QUALITY CONTROL

- 1. Testing Agency: Contractor employed.
- 2. Wire and Cable Test Procedures: NETA ATS.
- 3. Control/Signal Transmission Media Test Procedures: NETA ATS.

END OF SECTION 16100